

MARINE CORPS WARFIGHTING LABORATORY

The purpose of the **Marine Air Ground Task Force (MAGTF) Utility Tractor, Tactical (MUTT)** initiative is to assist the engineer community/engineer advocate in the assessment of small, multi-use, utility tractors in support of the Marine Air Ground Task Force (MAGTF).

Background: Recent lessons learned from Operation Enduring Freedom (OEF), recommendations from the Engineer Advocacy, and needs identified within the Expeditionary Force Development System (EFDS) have included and referenced a deficiency in Material Handling Equipment (MHE) for the purpose of Rapid Runway Repair (RRR)/Airfield Damage Repair (ADR), basic field fortification construction and rapidly produced revetments. Possible candidate technology solutions for this deficiency, and in support of Expeditionary Maneuver Warfare (EMW) evolutions, must be small enough in size for organic transportability, yet durable and rated with an operating lift capacity great enough to support Forward Operating Bases (FOBs) during contingency operations.

Concept of Experimentation: To evaluate the utility of a small loader with multiple methods of mobility (drive train design: all-wheel steer [articulated], skid-steer [wheeled], and tracked undercarriages) and attachments deemed critical to ADR, RRR and rapidly constructed field fortifications and revetments. Assessment will be to: 1) identify and evaluate technology performance leading to a better understanding of USMC requirements, 2) identify and define potential Tactics Techniques and Procedures (TTPs), and 3) assess the overall utility of the technology in a tactical scenario involving ADR, RRR and rapidly constructed field fortifications and revetments. A list of required attachments are as follows:

MAGTF UTILITY TRACTOR, TACTICAL

fact sheet



Angle Broom - Airfield/Runway Foreign Object Damage (FOD) Mitigation

Auger - Field Fortifications/Post Emplacement

Combination Bucket - Dozing, Scraping, Grappling, Leveling, Loading & Unloading

Pallet Forks - Material Handling, Loading & Unloading of Aircraft

Vibratory Roller - Runway Compaction, Flatwork, and Asphalt Patchwork

Breaker - Concrete & Asphalt Upheaval Removal for Runway & Crater Repair

Wheel Saw - Crater Squaring Through Asphalt, Concrete, & Frozen Ground for Runway/Crater repair

Backhoe - Rapid Field Fortification & Revetment Construction and Culvert/Airfield Drainage for Runway Repair

Deliverable: Specific requirements, Tactics, Techniques, Procedures, and Technologies (TTPTs) defined and validated for small, utility tractors within the USMC for future acquisition.

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